

CR 128

CATHODE

RAY

TUBE

TESTER

SET-UP CHART

TUBE TYPE	Filament Voltage	G2	Grid Bias Range
5TP4	6	HI	40-100
7DP4	6	HI	25- 65
7HP4	6	HI	33- 77
7RP4	6	HI	27- 63
8AP4	6	HI*	27- 63
(Tube Has No G ²)			
8XP4	6	HI	33- 77
8YP4	6	HI	35- 72
10ABP4,-A-B-C	6	HI	38- 72
10ADP4	8.4	HI	38- 72
10AEP4	6	HI	38- 62
10BP4,-A-B-C-D	6	HI	28- 72
10CP4	6	HI	30- 66
10DP4	6	HI	36- 84
10FP4,-A	6	HI	28- 72
10RP4	6	HI	28- 72
10SP4	6	HI	18- 48
11CP4	6	HI	60- 80
12JP4	6	HI	22- 63
12SP4	6	HI	24- 62
12KP4,-A	6	HI	28- 72
12LP4,-A-C	6	HI	28- 72
12QP4,-A	6	HI	24- 62
12RP4	6	HI	24- 62
12TP4	6	HI	24- 62
12UP4,-A-B	6	HI	24- 62
12XP4	6	HI	24- 62
12YP4	6	HI	33- 73
12ZP4,-A	6	HI	28- 72
14ACP4	6	LO-1	40- 80
14AEP4	6	LO-1	32- 50
14AJP4	6	HI	24- 64

2

TUBE TYPE	Filament Voltage	G2	Grid Bias Range
14ARP4	6	LO-1	35- 50
14ASP4	6	HI	28- 72
14ATP4	8.4	HI	28- 72
14AUP4	6	LO-1	30- 50
14AVP4	6	HI	28- 72
14AWP4	6	LO-1	32- 47
14AZP4	6	HI	35- 75
14BP4,-A	6	HI	24- 62
14BAP4	6	HI	28- 72
14CP4,-A	6	HI	33- 77
14DP4	6	HI	24- 62
14EP4	6	HI	28- 72
14GP4	6	HI	28- 72
14HP4	6	HI	28- 72
14KP4,-A	6	HI	24- 62
14NP4,-A	6	HI	28- 72
14QP4	6	HI	24- 64
14RP4,-A	6	HI	26- 70
14SP4	6	HI	28- 72
14UP4	6	HI	28- 72
14WP4	6	HI	28- 72
14XP4,-A	6	HI	28- 72
14ZP4	6	HI	28- 72
15AP4	6	HI	24- 62
15CP4	6	HI	24- 62
15DP4,-A	6	HI	24- 62
15EP4	6	HI	24- 62
15GP22	Color	HI	45-100
15HP22	Color	HI	45-100
16AP4,-A-B	6	HI	28- 72
16ABP4	6	HI	28- 72
16ACP4	6	HI	33- 68
16AEP4	6	HI	28- 72
16AFP4	6	HI	24- 62
16AVP4	6	LO-2	25- 50

3

TUBE TYPE	Filament Voltage	G2	Grid Bias Range
16AYP4	6	HI	60- 80
16BCP4	6	LO-2	25- 50
16CP4	6	HI	24- 62
16DP4,-A	6	HI	24- 62
16EP4,-A	6	HI	28- 72
16FP4	6	HI	24- 62
16GP4-C	6	HI	28- 72
16GP4,-A-B	6	HI	24- 62
16HP4,-A	6	HI	28- 72
16JP4,-A	6	HI	24- 62
16KP4,-A	6	HI	28- 72
16LP4,-A	6	HI	28- 72
16MP4,-A	6	HI	28- 72
16QP4	6	HI	24- 62
16RP4,-A	6	HI	28- 72
16SP4,-A	6	HI	28- 72
16TP4	6	HI	28- 72
16UP4	6	HI	28- 72
16VP4	6	HI	24- 62
16WP4,-A	6	HI	24- 62
16XP4	6	HI	24- 62
16YP4	6	HI	28- 72
16ZP4	6	HI	28- 72
17AP4	6	HI	28- 72
17ATP4,-A	6	HI	28- 72
17AVP4,-A	6	HI	28- 72
17BP4,-A-B	6	HI	28- 72
17BP4,-C	6	HI	24- 62
17BJP4	6	HI	28- 72
17BKP4,-A	6	HI	28- 72
17BMP4	6	LO-1	32- 50
17BNP4	6	LO-1	32- 50
17BRP4	6	HI	28- 72
17BSP4	6	HI	28- 72
17BTP4	6	HI	40- 80

4

TUBE TYPE	Filament Voltage	G2	Grid Bias Range
17BUP4	6	HI	28- 72
17BVP4	6	HI	35- 72
17BWP4	6	HI	35- 72
17BYP4	6	HI	35- 72
17BZP4,-A	6	HI	28- 72
17CP4,-A	6	HI	28- 72
17CAP4	6	HI	35- 72
17CBP4	6	HI	28- 72
17CDP4	8	HI	28- 72
17CEP4	6	HI	28- 72
17CFP4	6	HI	28- 72
17CGP4	6	HI	28- 72
17CKP4	6	HI	28- 72
17CLP4	6	HI	28- 72
17CMP4	6	LO-1	35- 50
17CNP4	6	LO-1	35- 50
17CRP4	6	LO-1	30- 50
17CSP4	6	HI	35- 72
17CTP4	6	HI	35- 72
17CUP4	6	HI	35- 72
17CVP4	6	HI	35- 72
17CWP4	6	HI	36- 92
17CXP4	6	LO-1	32- 47
17CYP4	6	HI	29-100
17CZP4	6	HI	39-100
*17DAP4	3	HI	35- 72
*USE SPECIAL SOCKET			
17DBP4	6	HI	35- 72
17DCP4	6	HI	35- 72
*17DEP4	2	HI	29-100
*USE SPECIAL SOCKET			
17DHP4	6	HI	29-100
17DJP4	6	HI	35- 72
17DKP4	6	HI	25- 95
17DLP4	6	HI	28- 72

5

TUBE TYPE	Filament Voltage	G2	Grid Bias Range
17DQP4	6	LO-1	24- 62
17DRP4	3	HI	35- 72
*USE SPECIAL SOCKET			
17DSP4	6	HI	45- 90
17DTP4	6	HI	28- 72
17DWP4	6	HI	28- 72
17DXP4	6	HI	43- 78
17DZP4	6	HI	28- 72
17EBP4	6	HI	43- 72
17FP4,-A	6	HI	28- 72
17GP4	6	HI	28- 72
17HP4,-A-B-C	6	HI	28- 72
17JP4	6	HI	28- 72
17KP4,-A	6	HI	28- 72
17LP4,-A	6	HI	28- 72
17QP4,-A	6	HI	28- 72
17RP4	6	HI	28- 72
17SP4	6	HI	28- 61
17TP4	6	HI	28- 72
17UP4	6	HI	28- 61
17VP4-B	6	HI	28- 72
17YP4	6	HI	28- 72
19AP4,-A-B-C-D	6	HI	28- 72
*19ABP4	3	HI	35- 72
*USE SPECIAL SOCKET			
19ACP4	6	LO-1	35- 50
19AEP4	12	LO-1	32- 47
19AFP4	6	HI	35- 72
19AHP4	6	HI	40- 63
19AJP4	6	LO-1	31- 49
19ALP4	6	HI	45- 95
19ANP4	6	HI	43- 78
19AQP4	6	HI	38- 72
19ARP4	6	HI	35- 72
19ASP4	6	HI	35- 72

6

TUBE TYPE	Filament Voltage	G2	Grid Bias Range
19ATP4	6	HI	43- 78
19AUP4	6	HI	35- 72
19AVP4	6	HI	36- 74
19AXP4	6	HI	36- 94
19AYP4	6	HI	36- 94
19BAP4	6	HI	35- 72
19BCP4	6	HI	35- 72
19BDP4	6	LO-1	31- 49
19BEP4	6	HI	42- 78
19BFP4	6	HI	36- 94
19BHP4	6	HI	28- 61
19BLP4	6	HI	36- 94
19BMP4	6	HI	36- 94
19BNP4	6	LO-1	32- 50
19BQP4	6	LO-1	32- 50
19BRP4	6	HI	35- 72
19BTP4	6	HI	43- 78
19BUP4	6	HI	45- 95
19BWP4	6	HI	45- 95
19CAP4	6	HI	43- 78
19CDP4	6	LO-1	35- 50
19CEP4	6	HI	35- 72
19CFP4	6	LO-1	31- 49
19CGP4	6	HI	35- 72
19CHP4	6	LO-1	32- 50
19CKP4	6	LO-1	31- 49
19CLP4	6	LO-2	25- 40
19CQP4	6	LO-2	25- 50
19CRP4	6	LO-2	25- 50
19CUP4	6	LO-2	25- 50
19CXP4	6	LO-2	35- 50
19CZP4	6	HI	36- 94
19DBP4	6	LO-2	35- 50
19DKP4	6	HI	36- 94
19DLP4	6	LO-2	25- 50

7

TUBE TYPE	Filament Voltage	G2	Grid Bias Range
19DP4,-A	6	HI	21- 58
19DQP4	6	HI	36- 94
19DRP4	6	HI	36- 94
19DSP4	6	LO-2	25- 50
19DTP4	6	HI	36- 94
19DUP4	6	LO-2	25- 50
19DWP4	6	HI	36- 94
19DYP4	6	LO-2	25- 50
19EBP4	6	HI	36- 94
19EGP4	6	LO-2	25- 50
19EJP4	6	LO-2	25- 50
19EKP4	6	LO-2	35- 50
19ELP4	6	HI	36- 74
19EP4	6	HI	21- 58
19FP4	6	HI	24- 62
19GP4	6	HI	24- 62
19JP4	6	HI	28- 72
19QP4	6	HI	28- 72
19TP22	Color	HI	42- 78
19VP22	Color	HI	45-100
19XP4	6	HI	36- 94
19YP4	6	HI	43- 78
19ZP4	6	HI	28- 72
20BP4	6	HI	24- 62
20CP4,-A-B-C-D	6	HI	28- 72
20DP4,-A-B-C	6	HI	28- 72
20FP4	6	HI	28- 72
20GP4	6	HI	28- 72
20HP4,-A-B-C-D	6	HI	28- 72
20JP4	6	HI	28- 72
20LP4	6	HI	28- 72
20MP4	6	HI	28- 72
21AP4	6	HI	28- 72
21ACP4,-A	6	HI	28- 72
21AFP4	6	HI	33- 77

8

TUBE TYPE	Filament Voltage	G2	Grid Bias Range
21ALP4,-A-B	6	HI	28- 72
21AMP4,-A	6	HI	28- 72
21AMP23A	6	HI	28- 72
21ANP4,-A	6	HI	28- 72
21AQP4,-A	6	HI	28- 72
21ARP4,-A	6	HI	28- 72
21ASP4	6	HI	28- 72
21ATP4,-A-B	6	HI	28- 72
21AUP4,-A-B	6	HI	28- 72
21AVP4,-A-B	6	HI	28- 72
21AWP4	6	HI	28- 72
21AXP22,-A	Color	HI	20-100
21AYP4	6	HI	28- 72
21BAP4	6	HI	28- 72
21BCP4	6	HI	28- 72
21BDP4	6	HI	28- 72
21BNP4	6	HI	28- 72
21BSP4	6	HI	28- 72
21BTP4	6	HI	28- 72
21CBP4,-A-B	6	HI	28- 72
21CDP4,-A	6	HI	28- 72
21CEP4	6	HI	28- 72
21CEP4-A	6	HI	36- 94
21CGP4	6	LO-1	32- 50
21CHP4	6	LO-1	32- 50
21CKP4	6	HI	28- 72
21CLP4	6	HI	35- 75
21CMP4	6	HI	28- 72
21CQP4	6	HI	35- 72
21CSP4	6	HI	35- 72
21CUP4	6	HI	28- 72
21CVP4	6	HI	28- 72
21CWP4	6	HI	28- 72
21CXP4	6	LO-1	35- 70
21CYP22	Color	HI	45-100

9

TUBE TYPE	Filament Voltage	G2	Grid Bias Range
21CZP4	6	HI	28- 72
21DP4	6	HI	28- 72
21DAP4	6	HI	36- 94
21DEP4,-A	6	HI	28- 72
21DFP4	6	HI	28- 72
21DHP4	6	HI	35- 72
21DJP4	6	HI	35- 72
21DKP4,-A	6	HI	35- 72
21DLP4	6	HI	28- 72
21DMP4	6	HI	36- 92
21DNP4	6	HI	35- 72
21DQP4	6	HI	35- 72
21DRP4	6	HI	28- 72
21DSP4	6	LO-1	32- 47
21DVP4	6	HI	28- 72
21DWP4	6	HI	50-110
*21EAP4	2	HI	35- 72
*USE SPECIAL SOCKET			
21ELP4	6	HI	45-100
21EMP4	6	HI	45-100
21ENP4	6	HI	35- 72
21EP4,-A-B	6	HI	28- 72
21EQP4	6	HI	43- 78
21ERP4	6	HI	43- 72
21ESP4	6	HI	28- 72
*21EVP4	3	HI	35- 72
*USE SPECIAL SOCKET			
21EWP4	6	HI	28- 72
21EXP4	6	HI	43- 78
21EYP4	6	HI	28- 72
21FAP4	6	HI	43- 78
21FB22	Color	HI	20-100
21FCP4	6	HI	34- 63
21FDP4	6	HI	35- 72
21FJP22	Color	HI	20-100

10

TUBE TYPE	Filament Voltage	G2	Grid Bias Range
21FKP22	Color	HI	20-100
21FLP4	6	HI	28- 72
21FMP4	6	LO-1	31- 49
21FP4,-A-C	6	HI	28- 72
21JP4,-A	6	HI	28- 72
21KP4	6	HI	38- 77
21KP4A	6	HI	28- 72
21MP4	6	HI	28- 72
21WP4,-A	6	HI	28- 72
21XP4,-A	6	HI	28- 72
21YP4,-A	6	HI	28- 72
21YP22,-A	Color	HI	20-100
21ZP4,-A-B	6	HI	28- 72
22AP4,-A	6	HI	28- 72
22EP22	Color	HI	55-105
23ACP4	6	HI	35- 72
23AFP4	6	HI	35- 72
23AHP4	6	HI	38- 78
23AKP4	6	HI	43- 78
23ALP4	6	HI	36- 94
23AMP4	6	HI	36- 94
23ANP4	6	LO-1	35- 50
23AQP4	6	HI	44- 94
23ARP4	6	HI	35- 72
23ASP4	6	HI	36- 94
23ATP4	6	LO-1	35- 50
23AVP4	6	HI	35- 72
23AWP4	6	LO-1	35- 51
23AXP4	6	HI	42- 78
23AYP4	6	HI	35- 72
23AZP4	6	HI	36- 94
23BP4	6	HI	45-100
23BAP4	6	HI	45-100
23BCP4	6	HI	35- 72
23BDP4	6	HI	45- 95

11

TUBE TYPE	Filament Voltage	G2	Grid Bias Range
23BEP4	6	HI	35- 72
23BGP4	6	LO-1	32- 50
23BHP4	6	LO-1	32- 50
23BJP4	6	LO-1	36- 54
23BKP4	6	LO-1	36- 54
23BLP4	6	LO-1	36- 54
23BMP4	6	HI	35- 72
23BNP4	6	HI	60-100
23BQP4	6	HI	35- 72
23BRP4	6	HI	43- 78
23BSP4	6	HI	35- 72
23BTP4	6	HI	43- 78
23BVP4	6	HI	35- 72
23BZP4	8	HI	36- 94
23BYP4	6	HI	43- 78
23CP4	6	HI	35- 72
23CAP4	8	HI	35- 72
23CBP4	6	HI	35- 72
23CDP4	6	HI	35- 72
23CEP4	6	HI	35- 72
23CMP4	6	HI	35- 72
23CQP4	6	HI	45-100
23CSP4	6	HI	43- 78
23CTP4	6	HI	35- 72
23CUP4	6	HI	43- 78
23CVP4	6	HI	43- 78
23CWP4	6	HI	43- 78
23CXP4	6	HI	43- 78
23CZP4	6	HI	43- 78
23DAP4	6	LO-2	25- 50
23DBP4	6	LO-1	31- 49
23DCP4	6	LO-1	35- 50
23DGP4	6	HI	36- 94
23DHP4	6	HI	35- 72
23DJP4	6	HI	36- 94

12

TUBE TYPE	Filament Voltage	G2	Grid Bias Range
23DKP4	6	HI	43- 78
23DLP4	6	LO-2	35- 50
23DNP4	6	LO-2	25- 50
23DP4	6	HI	43- 78
23DQP4	6	LO-2	35- 50
23DRP4	6	HI	43- 78
23DSP4	6	LO-2	35- 50
23DTP4	6	HI	43- 78
23DVP4	6	HI	36- 94
23DWP4	6	HI	36- 94
23DXP4	6	HI	36- 94
23DYP4	6	HI	36- 94
23DZP4	6	HI	36- 94
23EAP4	6	HI	43- 78
23EBP4	6	HI	36- 94
23ECP4	6	LO-2	25- 50
23EDP4	6	HI	35- 72
23EFP4	6	LO-2	25- 50
23EGP22	6	HI	20-100
23EHP4	8	HI	43- 78
23EJP4	6	HI	36- 94
23EKP4	6	HI	43- 78
23ELP4	6	HI	43- 78
23EMP4	6	HI	43- 78
23ENP4	6	LO-2	35- 50
23EQP4	6	HI	43- 78
23ERP4	6	HI	43- 78
23ESP4	6	HI	36- 94
23EWP4	6	HI	36- 94
23EYP4	6	LO-1	35- 50
23EZP4	6	LO-2	25- 50
23FAP4	6	HI	36- 94
23FBP4	6	LO-2	35- 50
23FCP4	6	LO-2	25- 50

13

TUBE TYPE	Filament Voltage	G2	Grid Bias Range
23FDP4	6	LO-2	25- 50
23FGP4	6	HI	36- 94
23FJP4	6	HI	36- 94
23FKP4	6	HI	35- 72
23FNP4	6	HI	43- 78
23FP4	6	HI	45-100
23FRP4	6	LO-1	35- 50
23FSP4	6	HI	35- 72
23FTP4	6	LO-1	35- 50
23FUP4	6	HI	35- 72
23FVP4	6	HI	36- 94
23FWP4	6	LO-2	35- 50
23FXP4	6	HI	43- 78
23GP4	6	HI	28- 72
23GAP4	6	HI	36- 94
23HP4	6	HI	35- 72
23JP4	6	LO-1	35- 50
23KP4,-A	6	HI	28- 72
23MP4	6	HI	36- 94
23NP4	6	LO-1	28- 49
23RP4	6	HI	43- 78
23SP4	6	HI	35- 72
23TP4	6	HI	28- 72
23UP4	6	HI	35- 72
23VP4	6	HI	45-100
23WP4	6	HI	35- 72
23XP4	6	HI	35- 72
23YP4	6	HI	35- 72
23ZP4	6	LO-1	35- 50
24AP4,-A-B	6	HI	28- 72
24ADP4	6	HI	28- 72
24AEP4	6	HI	28- 72
24AHP4	6	HI	28- 72
24AJP4	6	LO-1	35- 50

14

TUBE TYPE	Filament Voltage	G2	Grid Bias Range
24ALP4	6	HI	28- 72
24AMP4	6	HI	35- 72
24ANP4	6	HI	35- 72
24AQP4	6	HI	35- 72
24ASP4	6	HI	35- 72
24ATP4	6	LO-1	34- 49
24AUP4	6	HI	35- 72
*24AVP4,-A	2	HI	35- 72
*USE SPECIAL SOCKET			
24AWP4	6	HI	28- 72
24AXP4	6	HI	35- 72
24BP4-A	6	HI	28- 72
24BAP4	6	LO-1	32- 47
24BEP4	6	HI	60- 80
24CP4,-A	6	HI	28- 72
24DP4,-A	6	HI	28- 72
24QP4	6	HI	28- 72
24TP4	6	HI	28- 72
24VP4,-A	6	HI	28- 72
24XP4	6	HI	28- 72
24YP4	6	HI	28- 72
24ZP4	6	HI	28- 72
27AP4	6	HI	28- 72
27EP4	6	HI	28- 72
27GP4	6	HI	28- 72
27LP4	6	HI	28- 72
27MP4	6	HI	28- 72
27NP4	6	HI	28- 72
27RP4	6	HI	28- 72
27SP4	6	HI	28- 72
27UP4	6	HI	28- 72
27VP4	6	HI	28- 72
27WP4	6	HI	40- 80
27XP4	6	HI	36- 94
30BP4	6	HI	28- 72

15